

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
29 September 2005 (29.09.2005)

PCT

(10) International Publication Number
WO 2005/091462 A1

(51) International Patent Classification⁷: **H02J 7/00**,
7/35, H01M 10/46

(21) International Application Number:
PCT/EP2005/003059

(22) International Filing Date: 22 March 2005 (22.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
04 03012 23 March 2004 (23.03.2004) FR

(71) Applicant and

(72) Inventor: **COUR, Jean-Michel** [FR/FR]; 2 Allée Galilée,
F-91400 Orsay (FR).

(74) Agent: **PONTET, Bernard**; Pontet Allano & Associes
Selarl, 25 rue Jean Rostand, Parc Club Orsay Université,
F-91893 Orsay Cedex (FR).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,
ZM, ZW.

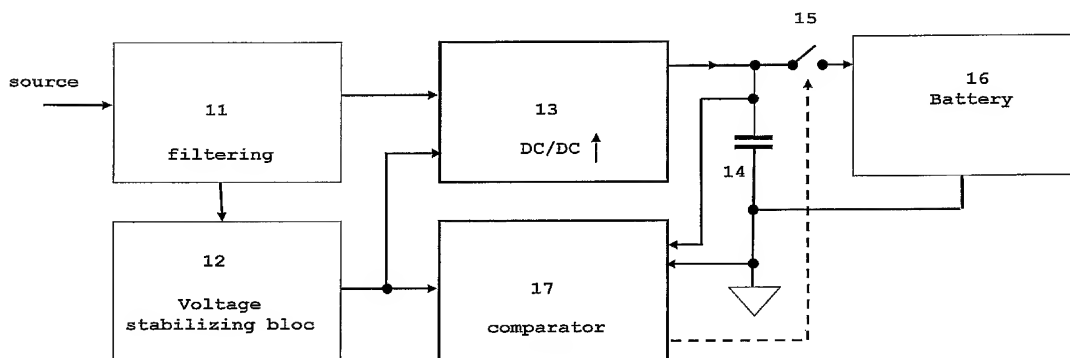
(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: METHOD AND DEVICE TOLERANT TO DIRECT CURRENT SOURCE FLUCTUATION FOR PULSE CHARG-
ING A BATTERY



(57) Abstract: A method for charging a battery (16) from a direct-current source liable to significant fluctuations, comprising the steps of: - progressively charging a storage capacitor (14) at a voltage that is higher than the nominal voltage of the battery (16), - detecting a predetermined voltage threshold over the terminals of said storage capacitor (14), and - discharging said storage capacitor (14) into said battery (16), said discharging being controlled by said threshold detection.

WO 2005/091462 A1